



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,774	08/25/2003	Paul A. Knight	ISOT-019	4036
7590	06/16/2005		EXAMINER	
Michael S. Neustel Suite No. 4 2534 South University Drive Fargo, ND 58103			LU, JIPING	
			ART UNIT	PAPER NUMBER
			3749	

DATE MAILED: 06/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

S/

Office Action Summary	Application No.	Applicant(s)	
	10/648,774	KNIGHT ET AL.	
	Examiner	Art Unit	
	Jiping Lu	3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 March 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-16 and 18-35 is/are pending in the application.
 4a) Of the above claim(s) 18 and 19 is/are withdrawn from consideration.
 5) Claim(s) 20-35 is/are allowed.
 6) Claim(s) 1,2 and 9 is/are rejected.
 7) Claim(s) 3-8 and 10-16 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3/4/2005</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Status

1. Claims 1-16, 18-35 are now in the case. Claim 17 is canceled. Claims 18-19 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 7/9/2004.

Allowable Subject Matter

2. The indicated allowability of claim 17 is withdrawn in view of the newly discovered reference(s) to Rodi et al. (EP 0297308). Rejections based on the newly cited reference(s) follow.

3. Claims 3-8, 10-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 20-35 are allowed.

Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 1-2, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leicht (U. S. Pat. 5,181,648) in view of Rodi et al. (EP 0297308).

Leicht shows a dry-wet thermal management system comprising a chassis 101 having a dry chamber 107 and a spray chamber 103, a fan 108 and a spray unit 104 same as claimed. Both chambers are capable of receiving dry or wet card. However, Leicht does not show a plurality of air vents. Rodi et al. show a dry-wet thermal management system comprising a chassis having a dry chamber 1 with a plurality of vents 5 for air flow same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the dry chamber of Leicht with a plurality of vents as taught by Rodi et al. in order to facilitate the air flow.

7. Claims 1-2, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inaba et al. (JP 56-133544) in view of Rodi et al. (EP 0297308).

Inaba et al. shows a dry-wet thermal management system comprising a chassis having a dry chamber 17 and a spray chamber 16, a fan 24 and a spray unit 21 same as claimed. Both chambers are capable of receiving dry or wet card. However, Inaba et al. does not show a plurality of air vents. Rodi et al. show a dry-wet thermal management system comprising a chassis having a dry chamber 1 with a plurality of vents 5 for air flow same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the dry chamber of Inaba et al. with a plurality of air vents as taught by Rodi et al. in order to facilitate the air flow.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on 571 272-4877. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jiping Lu
Primary Examiner
Art Unit 3749

J. L.